

Changes in the Adsorption of Potential-Determining Ions During  
Coagulation of Lyophobic Sols by Indifferent Electrolytes

SOV/69-21-3-3/25

a marked additional adsorption of potential-determining ions could be stated in each case. The desorption of iron ions, which could be observed during the coagulation of the  $\text{Fe}(\text{OH})_3$  sol, was due to secondary factors. Coagulation of lyophobic sols by indifferent electrolytes, therefore, affects not only the external but also the internal sheath of the colloid particle double layer. The changes observed thereby cannot be explained from the standpoint of a purely electrostatic compression of the double layer. There is a quantitative disparity between this conception and the obtained data. The authors conclude by recommending the further study of the coagulation theory, which is to consider the quantitative effect of electrolytes on the surface potential of colloid particles. Towards the end of the article, the authors mention the Soviet scientists V.A. Kargin and A.I. Rabinovich in connection with certain effects produced by poten-

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SOV/69-21-3-3/25  
Changes in the Adsorption of Potential-Determining Ions During  
Coagulation of Lyophobic Sols by Indifferent Electrolytes

tial-determining ions during the coagulation process.  
There are 3 tables and 50 references, 24 of which are  
Soviet, 13 German, 10 English and 3 French.

ASSOCIATION: Tekhnologicheskii institut legkoy promyshlennosti  
(Technological Institute of Light Industry)  
Institut fizicheskoy khimii AN USSR im. L.V. Pissar-  
zhevskogo, Kiyev (Institute of Physical Chemistry  
of the AS of the UkrSSR imeni L.V. Pissarzhevskiy,  
Kiyev)

SUBMITTED: 26 February 1958

Card 3/3

ZHEL'VIS, Ye. F., and GLAZMAN, Yu. N.

"On the Nature of the Phenomenon of Assimilation in the Coagulation of Hydrophobic Colloids with Electrolytes. Coagulation of Sol of Prussian Blue (Oprirode yovleniya pribykaniya pri koagulyatsii gidrofobnykh kolloidov elektrolitami. Koagulyatsiya zolya Berlinskoy lazure) from the book Trudy of the Third All-Union Conference on Colloid Chemistry, pp 341-348, Iz. AN SSSR, Moscow, 1956

(Report given at above Conference, Minsk, 21-4 Dec 53)

Authors: Kiev, Technological Institute of Light Industry

ZHELYABIN, A.; TRIGUB, N.; RUSANOV, S.

Striving for the title of the enterprise of communist labor. Workers of the Bolshevo Mixed Feed Plant. Workers of the Orenburg Sack Repairing Shop. Muk.-elev. prom. 29 no.12;3-6 D '63.

(MIRA 17:3)

1. Moskovskoye upravleniye khleboproduktov (for Zhelyabin).
2. Glavnyy inzh. Bolshhevskogo kombikormovogo zavoda (for Trigub).
3. Orenburgskoye oblastnoye upravleniye khleboproduktov (for Rusanov).

NOVAK, N.Ye.; FEDYAYEV, V.I.; ZHELYABIN, A.V.; KEYZER, V.A., red.; SAVEL'-  
YEVA, Z.A., tekhn. red.

[Operating small mixed feed mills] Opyt ekspluatatsii malogabarit-  
nykh kombikormovykh agregatov. Moskva, Izd-vo tekhn. i ekon. lit-ry  
po voprosam zagotovok, 1961. 59 p. (MIRA 14:11)  
(Feed mills)

**ZHILYABOV, P.Va.**

My practices in rapid transshipment of ship cargoes and  
freightcar loads. Rech.transp.14 no.10:6-9 0 '55.  
(MIRA 9:1)

1, Kranovshchik Dnepropetrovskogo porta.  
(Dnepropetrovsk--Harbor) (Loading and unloading)



ZHELUBOVSKAYA, E.A.

(Eafir' Adol'fovna)

"The Class and Party Struggle in France, 1867-1870 (the prehistory of the Paris Commune of 1871)," Dissertation), Academic degree of Doctor in Historical Sciences, based on her defense, 7 June 1954, in the Council of the Institute of History, Acad. Sci. USSR.

-m-3,054,778, 2 Oct. 57

ZHELYABIN, A.; KOVNATSKIY, I.; GROSS, K.; TULER, A.

Manual on machining flour mill rolls ("Polishing and grooving flour mill rolls" by L.I.Kotliar and N.IA.Kesterl'man. Reviewed by A.Zhelyabin and others). Muk.-elev.prom. 25 no.2: 3 of cover F '59. (MIRA 12:4)

1. Glavnyy inzhener Moskovskogo oblastnogo upravleniya khlebo-  
produktov (for Zhelyabin). 2. Glavnyy inzhener Moskovskogo  
gorodskogo upravleniya khleboproduktov (for Kovnatskiy). 3.  
Glavnyy inzhener mel'nitsy No.2 "Novaya Pobeda." (for Gross).  
4. Glavnyy inzhener Novosibirskogo mel'nichnogo kombinata No.1  
(for Tuler).

(Flour mills) (Kotliar, L.I.) (Kesterl'man, N.IA.)



EXCERPTA MEDICA Sec 6/Vol 13/6 Internal Medicine June 59

2575. THE USE OF SPECIFIC BACTERIOPHAGE IN DIPHTHERIA (Russian text) -  
Zhelyabovskaya E.I. Saratov 1958

Treatment of 860 patients with various forms of diphtheria showed that use of diphtheria bacteriophage combined with anti-diphtheria serum and other causal therapy more rapidly abolishes local processes, decreases general toxemia, lowers the number and volume of serum injections required, increases phagocytosis, and decreases the frequency of complications and mortality. Carrier state in patients treated with diphtheria bacteriophage was found in 5.1% of cases, and in the non-treated in 25.1% after the 21st day of the disease. Virulence of the diphtheria strains isolated after phage treatment was considerably decreased. It is concluded that diphtheria bacteriophage is effective in prophylaxis and treatment of diphtheria.

(5)

ZHELYADOVSKAYA, K. G.

"Treatment of Typhoid-Paratyphoid Diseases With Sulfidine and Methylene Blue,"  
Avtoreferaty Dokladov 19-y Nauchnoy Sessii Saratovskogo Gosudarstvennogo Meditsinskogo  
Instituta, Saratov, 1952, pp 206, 207.

ZHELYABOVSKAYA, E. I.

Saratov 5th Childrens' Disease Hospital, (-1944-)

Childrens' Clinic, Saratov Med. Inst., (-1944-)

Chair of Microbiol., Saratov Med. Inst. (-1944-)

"Bacteriaphagotherapy of the Toxic Diptheria."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 6, 1944.

Name : ZHELYABOVSKAYA, YE. I.  
Dissertation : Use of a specific bacteriophage in  
diphtheria  
Degree : Doc Med Sci  
Defended At : Min Health RSFSR, Saratov State Medical  
Inst  
Publication Date, Place : 1956, Saratov  
Source : Knizhnaya Lstopis' No 5, 1957

ZHELYABOVSKAYA, Yelizaveta Ivanovna

Application of specific bacteria-(faga) concerning diptheria.

Dissertation for the degree of Doctor of Medical Science.  
Chair of Nursery Infectious Diseases, Saratov Medical Institute, 1957

Name: ZHELYABOVSKAYA, Yelizaveta Ivanovna

Dissertation: Use of specific bacteriophages  
during diphtheria

Degree: Doc Med Sci

Affiliation: [Not indicated]

Defense Date, Place: 5 Mar 57, Council of Saratov State  
Med Inst

Certification Date: 5 Oct 57

Source: BMVO 23/57



ZHELYABOVSKAYA, Ye. I.

Zhelyabovskaya, Ye. I. "Clinical-experimental observations on the action of the diphtheria bacteriophage on major diphtheria and bacillus carriers," Trudy VI Vsesoyuz. s'yezda det. vrachey, povyashch. pamyati prof. Filatova, Moscow, 1948, p. 311-15

SO: U-3264, 10 April 1953, (Letopia 'Zhurnal 'nykh Stateli, No. 3, 1949)

ZHELYABOVSKAYA, Ye. I.

"Clinical Characteristics of Diphtheria in Young Children," Avtoreferaty Dokladov  
19-y Nauchnoy Sessii Saratovskogo Gosydarstvennogo Meditsinskogo Instituta, Saratov,  
1952, pp 239, 240.

ZHELYABOVSKIY, A., podpolkovnik

Chemical and incendiary weapons. Starsh.-serzh. no.4(7):32  
Ap '61. (MIRA 14:7)

(Chemical warfare)

ZHELYABOVSKIY, A.I.

Unsatisfactory collection ("Unified standards of time for repair and construction jobs." Reviewed by A.I.Zheliabovskii). Neft.khoz. 33  
no.2:95-96 F 155.  
(Construction industry) (MIRA 8:4)

ZHELYABOVSKIY, A.I.

ZHELYABOVSKIY, Aleksandr Illarionovich; KOLESHNIKOV, P.M., red.; BABICHENVA,  
V.V., tekhn.red.

[Ways of increasing the manufacture of petroleum products; practices of personnel in the Grozny plant of the "Grozneftezavod" Petroleum Trust] Puti uvelicheniia vyrabotki nefteproduktov; iz opyta raboty kollektiva Groznenskogo neftemaslozavoda ob"edineniia "Grozneftezavody." [Grozny] Groznenskoe knizhnoe izd-vo, 1956. 60 p.  
(Grozny--Petroleum products) (MIRA 11:3)

BYREYEV, P.A., prof.; VAESHAMOV, L.A., prof.; VOLYNSKIY, B.G., dotsent;  
 GERASIMOV, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY,  
 G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent;  
 KHUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent;  
 LOBKO, I.S., doktor [deceased]; LUKOVA, A.I., prof.; MAKHLIN,  
 Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.;  
 SOLJUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; TRET'YAKOV,  
 K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent;  
 FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT,  
 A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med.  
 nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, L.S.,  
 prof.; SHUSTERMAN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L.,  
 kand.med.nauk; NIKITIN, B.A., dotsent, red.; APANAS'YEV, I.A.,  
 red.; LUKASHEVICH, V., tekhn.red.

[Concise medical reference book] Kratkii terapevticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p.  
 (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov).  
 (MEDICINE--HANDBOOKS, MANUALS, ETC.)



ZHELYABOVSKIY, G.M., prof. (Saratov)

Some results of the work of public health agencies in Saratov  
Province. Sov.zdrav. 16 no.10:54-56 0 '57. (MIRA 10:12)  
(PUBLIC HEALTH  
in Russia, achievement of med. serv. agencies & centers)

ZHELYAK, Ye.N.

[Loan capital and loan interest. Circulation of money] Ssudnyi kapital  
i ssudnyi protsent. Denezhnoe obrashchenie, Kiev, 1959. 21 p.  
(Loans) (Money) (MIRA 14:8)

LAGUTINA, L.Ye., kand. med. nauk; ZHELYAKOVA, A.V.; FURSIKOVA, V.L.

Symmetrical bilateral necrosis of the renal cortex in children. *Pediatrics* 41 no.10:72-75 0 '62.

(MIRA 17:2)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent S.B. Davidson) Saratovskogo meditsinskogo instituta i proektury klinicheskogo gorodka Saratovskogo meditsinskogo instituta (zav. patologoanatomicheskim otdeleniyem R.A. Utts).

ZHELYAZKOV, A.; USHEV, Iv.

Dolichocolon in clinical and radiological practice. Nauch.  
tr. vissh. med. inst. Sofia 41 no.7:201-215 '62.

1. Predstavena ot prof. A. Nikolaev.  
(COLONIC DISEASES)

ZHELYAZKOV, B.

Bulgaria/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63550

Author: Zhelyazkov, B.

Institution: None

Title: Bulgarian Natural (Wine) Brandy

Original

Periodical: B"lgarski yestestven (vinen) konyak. Lozarstvo i vinarstvo, 1955, 4, No 2, 108-111; Bulgarian

Abstract: Brief description of the technology of production of brandy in Bulgaria, which does not differ from that used in USSR. Brandy spirits were first set to aging in Bulgaria in 1952.

Card 1/1

BULGARIA/Human and Animal Physiology. Internal Secretion.  
General Problems.

T-7

Abs Jour : Ref Zhur - Biol., No 13, 1958, 84297

Author : Nikolov, P., Zhelyazkov, D.

Inat : -

Title : Effects of Histamine upon Some Endocrinal Glands (Supra-  
renal and Thymus Glands).

Orig Pub : Sovrem. med., 1957, 8, No 7, 3-8

Abstract : To three 7 days old rats histamine was administered in do-  
ses of 0.1 mg for a period of 5-6 days. Suprarenal gland  
weights increased, thymus gland weights decreased. In rats  
receiving histamine, weight gains became smaller.

Card 1/1



ROUSSINOV, K.; ZHELYAZKOV, D.; GEORGIEV, V.

On the mechanism of the myorelaxant effect of the alkaloids  
of Vinca herbacea W.K. Dokl. Bolg. akad. nauk 15 no.3:329-332  
'62.

1. Submitted by Corresponding Member P. Nikolov.  
(MUSCLE RELAXANTS pharmacol)  
(ALKALOIDS pharmacol)

GORKIN, V.Z.; GRIDNEVA, L.I.; YERMOLAYEV, K.M.; ZHELYAZKOV, D.K. (Bolgariya)

A new non-hydrazine inhibitor of monoamine oxidase. Dokl. AN SSSR  
153 no.2:468-469 N '63. (MIRA 16:12)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR. Predstavleno  
akademikom M.M.Shemyakinym.

BRUSOVA, I.V.; GORKIN, V.Z.; ZHELYAZKOV, D.K.; KITROSSKIY, N.A.;  
LEONT'YEVA, G.A.; SEVERINA, I.S.

New spectrophotometric method for determining monoamine oxidase  
activity in liver homogenates. Vop. med. khim. 10 no.1:83-89  
Ja-F '64. (MIRA 17:12)

1. Institute of Biological and Medical Chemistry, Academy of  
Medical Sciences of the U.S.S.R., Moscow.

S/035/62/000/005/076/098  
A055/A101

AUTHORS: Venedikov, M., Ribarov, S., Zhelyazkov, I.

TITLE: Examination of the precision of the trigonometric levelling of points of theodolite steps traverses

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 14, abstract 5G75 ("Nauchn. tr. Vissh.lesotekhn. in-t", 1961, 9, 273-284, Bulgarian; German summary)

TEXT: The levelling was effected with the aid of an optical theodolite tachometer Zeiss T IV. The main source of the elevation error are the errors in the measurement of distances. Random errors amount to 6 - 8 cm at  $s < 125$  m and to 10 - 14 cm at  $s = 150 - 250$  m. A systematic positive error of 7 - 25 cm at  $s = 50 - 250$  m was found out and ascribed to the inaccuracy of the range-finder constant. The measurements of positive tilt-angles contain a systematic error, which is ascribed by the authors to the imperfection of the optical reading system (the authors extend this assertion to all Zeiss T IV-type theodolites). The magnitude of this error was 30 - 50 "cc" at  $s = 50 - 150$  m and 70 "cc" at

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Examination of the precision ...

S/035/62/000/005/076/098  
A055/A101

$s = 200 - 250$  m. The random errors decrease noticeably with distance. For negative tilt-angles, the random errors are  $25 - 35''_{cc}$  at  $s = 75 - 250$  m and  $52''_{cc}$  at  $s = 50$  m. An accuracy estimate for various tilt-angles and distances is given (tables and formulae). ✓

O. Sheynin

[Abstracter's note: Complete translation]

Card 2/2

Country : Bulgaria  
 Category : Microbiology. Microbes Pathogenic For Man and Animals.  
 General Problems.  
 Abs. Jour : Ref Zhur-Biol., No 25, 1958, No 103785  
 Author : Zhelyazkov E.  
 Institut. : The "V. Chervenkov" Medical Academy  
 Title : Rhinocytological Investigation in the Study of Droplet  
 Infections  
 Orig. Pub. : Nauchni tr. Med. akad. "V. Chervenkov", 1953 (1954),  
 1, No 1, 295-306  
 Abstract : Five hundred and two rhinocytograms were studied in  
 healthy people and patients with droplet infections.  
 In virus influenza degenerating cells of cylindrical  
 epithelium are encountered, whereas in colds\*neutrophils  
 are observed in large numbers. In scarlet fever, many  
 neutrophils, lymphocytic-histiocytic cells and strepto-  
 cocci are found; in diphtheria, neutrophils in smaller  
 numbers as well as diphtheria bacilli; in poliomyelitis  
 and mumps, cells of multilayered squamous epithelium,  
 whereby in mumps these cells are arranged in layers.  
 In bronchopneumonic complications of measles pneumococci  
 are found in the rhinocytograms; in epidemic meningitis,  
 meningococci. The author believes that the rhinocyto-  
 gram can be useful for early diagnosis and should be  
 1/2 \*(catarrhal condition of upper respiratory  
 passages)

Card:



Country :  
Category :

Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 103785

Author :  
Institut. :  
Title :

Orig Pub. :

Abstract : Widely used in the study of droplet infections.--  
(Cont.) V. V. Vlodavets.

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F-58

Card: 1/1

G-2

Country : Bulgaria  
Category :

45845

Abs. Jour :

Author :  
Institut. :  
Titlo :

Zhelyazkov, L. and Zikolova, S.  
Bulgarian Institute for Pharmacology  
Note on the Synthesis of Nicotinic Acid Diamide  
(Coramine, Cordiamine)

Orig Pub. :

Abstract :

Trudy Nauch Isledovatel Inst Farmatsiya, 1, 3-5  
(1957)  
Decreasing the amount of  $\text{SOCl}_2$  used in the syn-  
thesis of coramine (I) and the use of  $\text{NH}(\text{C}_2\text{H}_5)_2$   
instead of  $\text{NH}(\text{C}_2\text{H}_5)_2 \cdot \text{HCl}$  markedly increases the  
yield of I. 1 mol nicotinic acid and 5 mols  
 $\text{SOCl}_2$  are heated in  $\text{C}_6\text{H}_6$  to  $110-120^\circ$ , the prod-  
uct is heated (2 hrs at  $100^\circ$  followed by 2 hrs  
at  $160-165^\circ$ ) with a benzene solution of  $\text{NH}(\text{C}_2\text{H}_5)_2$ ,  
and I is isolated by the usual method, yield 75%.  
D. Vitkovskiy

Card: 1/1

of  $\text{C}_6\text{H}_5\text{NC}_2\text{H}_5$  is

~~ZHELYAZKOV~~

~~Shelyazkov~~

BULGARIA / Organic Chemistry--Synthetic organic chemistry,

C-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49491

Author : Zhelyazkov, L.; Zikolova, S.; Agova, M.; Zhelyazkov, L.;  
Agova, M.; Zikolova, S.; Mutafocheva, E.

Inat : Bulgarian Institute for Pharmacology  
Title : Synthesis of Compounds with Possible Antitubercular  
Activity. I. Hydrazides of Some Organic Acids and  
Their Derivatives. II. Hydrazides of Isonicotinyl  
Hydrazide. III. Hydrazides and Hydrazones of  $\alpha$ -  
Cyanocarboxylic Acids

Orig Pub : Trudy Nauch Issledovatel Farmatsiya, 1, 12-15; 15-19;  
19-21 (1957)

Abstract : I. In the course of research on the synthesis of  
compounds with antitubercular activity (ATA), the  
authors have synthesized a number of hydrazides by the

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BULGARIA / Organic Chemistry--Synthetic organic chemistry.

C-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49491

reaction of organic acid esters with  $N_2H_4 \cdot H_2O$  (I) at about  $100^\circ$  or at higher temperatures (the starting acid, code of the corresponding hydrazide in parentheses, yield in %, and mp in  $^\circ C$  are given in that order: isonicotinic (II), 98, 171; nicotinic, 98, 158 - 159;  $C_6H_5COOH$ , 80, 112 - 113; 4- $NO_2C_6H_4COOH$ , 75, 208; 4- $NO_2C_6H_4COOH$ , 75, 220 - 224; 2- $HOC_6H_4COOH$ , 60, 148 - 152; PASK /PASC17 (III), 60, 123 - 124;  $C_6H_5SO_3H$ , 70, 100 - 102; 4- $NH_2C_6H_4SO_3H$ , 75, 131; 4- $CH_3CONHC_6H_4SO_3H$ , 74, 177; citrazinic, 56, 215 - 216;  $HSCH_2COOH$  (IV), 70, -. The action of  $C_6H_5CHO$  (V) and 2- $HOC_6H_4CHO$  (VI) on IV gives  $HSCH_2CONHN-CHC_6H_5$  (VII), yield 63%, mp  $170 - 175^\circ$ , and  $HSCH_2CONHN-CHC_6H_4OH-2$  (VIII), yield 70%, mp  $180 - 186^\circ$ . The ATA of III is equal to that of I; the remaining hydrazides have lower activities. VII and VIII were found to have no activity. Apparently the ATA carrier

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BULGARIA / Organic Chemistry--Synthetic organic chemistry.

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Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49491

is not the ~~WNEC~~ group but the molecule as a whole.

II. The reaction of II with aldehydes or ketones gives a series of isonicotinyll hydrazones. The reaction proceeds in alcoholic or aqueous medium in the presence (or absence) of a small amount of  $\text{CH}_3\text{COOH}$  at about  $20^\circ$  or at about  $100^\circ$  (10 - 15 min); at more elevated temperatures the reaction takes 10 - 20 hrs [misprint?]. The starting aldehyde or ketone, the yield in %, and the mp in  $^\circ\text{C}$  are given for the following isonicotinyll hydrazones: camphor, 60, 217; carvone, 70, 142 - 143; perillaldehyde, 35.5, 126 - 130; benzoin, 90, 163; 2-hydroxy- $\alpha$ -naphthoic aldehyde, 98, 255;  $\text{C}_6\text{H}_5\text{CH}_2\text{CHCOCH}_3$ , 98, 183 - 186;  $\alpha$ -naphthyl- $\beta$ -phenylindone, 20, 223 - 226; antipyrine, 10, 254 - 257;  $\text{CH}_2\text{O}$ , 50, 171 - 178; triacetoneamine, 98, 186.5; diacetoneamine oxalate, 60,

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BULGARIA / Organic Chemistry--Synthetic organic chemistry.

G-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1959, No. 49491

205; phorone, 50, 189; mesityl oxide, 50, 263 - 264; 4-hydroxycoumarin, 10, 237;  $\alpha$ -galactose, 50, 170 - 173;  $(CH_3)_2C(OH)CH_2COCH_3$ , 96, 140 - 142;  $C_6H_5-COCH_2CN$ , 60, 234 - 236;  $C_6H_5COCH_2CH_2CN$ , 50, 253 - 255; 5-nitrofurfural, 98, 250 (docomp); furfural (IX), 90, 214 - 215;  $\alpha$ -glucose, 40, 180; VI, 98, 239 - 240; 4- $(CH_3)_2NC_6H_4CHO$ , 90, 202 - 203; acetone (X), 70, 160 - 161;  $C_6H_5COCH_3$ , 98, 174; 4- $CH_2CONHC_6H_4CHO$  (XI), 97, 278 - 281; V, 90, 199;  $CH_3CHO$ , 91, 176 - 178; cyclohexanone (XII), 90, 174; enanthic aldehyde, 70, 99 - 102; vanillin, 90, 222 - 225. 4- $CNCH_2CH=NNHCOC_5H_4N \cdot HCl$  has also been synthesized in yields of 87% (mp 279 - 280°). Two of the above isonicotinyl hydrazones have shown good results during clinical tests. III. Hydrazones have been synthesized by the reaction of aldehydes and ketones with  $RCH(CN)-CONHNH_2$  (XIII), prepared

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BULGARIA / Organic Chemistry--Synthetic organic chemistry

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Abs Jour | Ref Zhur - Khimiya, No 14, 1959, No. 49491

from I and  $\text{RCH}(\text{CN})\text{COOC}_2\text{H}_5$ . The reaction of  $\text{CNCHNaCOOC}_2\text{H}_5$  and  $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$  in xylene (reflux for about 10 hrs) gives  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{CN})\text{COOC}_2\text{H}_5$  in yields of 50%.  $(\text{CH}_3)_2\text{CHCH}(\text{CN})\text{CONH-NH}_2$ , mp 75°, and  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}(\text{CN})\text{CONH-NH}_2$ , mp 127 - 128°, have also been prepared. The starting aldehyde or ketone and the R group in XIII, and the mp in °C of the hydrazones are listed in that order for the following hydrazones: XII, H, 128; XI, H, 226 (decomp); VI,  $\text{CH}_3$ , 212 - 214; IX,  $\text{CH}_3$ , 153 - 156; X,  $(\text{CH}_3)_2\text{CH}$ , 109; V,  $(\text{CH}_3)_2\text{CH}$ , 158 - 160; VI,  $(\text{CH}_3)_2\text{CH}$ , 146; the ATA of the hydrazones obtained are lower than the ATA of II. -- V. Skorodumov

Card 5/5

BULGARIA/Organic Chemistry. Organic Synthesis.

Q

Abs Jour: Ref Zhur-Khin., No 11, 1959, 38592.

Author : Zhelyazkov, L. and Dikova, N.

Inst : Pharmacological Research Institute.

Title : Synthesis of Phenacetin.

Orig Pub: Trudi Nauch Isledovatel Inst Farmatsiya, 1, 25-36  
(1957) (in Bulgarian with German and Russian summaries)

Abstract: The authors have synthesized  $p\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{NHCOCH}_3$  (I) by the reaction scheme:  $\text{C}_6\text{H}_5\text{OH} + p\text{-HOC}_6\text{H}_4\text{NC}$  (II) [sic];  $\text{II} + \text{H}_2\text{S} + \text{Na}_2\text{S} \longrightarrow p\text{-HOC}_6\text{H}_4\text{NH}_2$  (III);  $\text{III} + \text{CH}_3\text{COOH} \longrightarrow p\text{-HOC}_6\text{H}_4\text{NHCOCH}_3$  (IV);  $\text{IV} + \text{C}_2\text{H}_5\text{SO}_2\text{OC}_2\text{H}_5$  (+ NaOH)  $\longrightarrow$  I. II is obtained in yields of 70-78%; III is obtained in yields of 80% by the reduction of II or by the action of  $(\text{NH}_4)_2\text{S}$  on a solution of II in conc  $\text{NH}_3$  (or by passing a stream of  $\text{H}_2\text{S}$  through the

Card : 1/2

G-22



BULGARIA/Organic Chemistry. Organic Synthesis.

Abs Jour: Ref Zhur-Khin., No 11, 1959, 38592.

G

solution); IV is obtained in yields of 80%; the yield of crude I is 84%; (80% after recrystallization) calculated on III or 40% calculated on the starting phenol. -- M. A.

Card : 2/2

Country : Bulgaria  
Category :

G-2

Abs. Jour. :

45884

Author : Zhelyazkov, L., Bikova, N., and Zikolova, R.  
Institut. : Bulgarian Institute for Pharmacology

Titlo : Synthesis of N-Substituted 2-Oxazolidones and  
of Their Derivatives

Orig. Pub. : Trudy Nauch. Ispedovatel. Inst. Farmatsiya, 1, 25-  
27 (1957)

Abstract : For the purpose of investigating the dependence  
between the structure of 1-oxazolidones-2 and  
their pharmacological activity, the Na-deriva-  
tives of cis- and trans-4-methyl-5-phenyl-1-  
oxazolidone-2 (I, II) have been alkylated with  
(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SO<sub>4</sub>, C<sub>6</sub>H<sub>5</sub>SO<sub>3</sub>CH(CH<sub>3</sub>)<sub>2</sub> and C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>Cl to  
3-R-I (IIIa-c, where R<sub>a</sub> = C<sub>2</sub>H<sub>5</sub>, R<sub>b</sub> = CH(CH<sub>3</sub>)<sub>2</sub>,  
and R<sub>c</sub> = CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>) and 3-R-II (IVa-c). Alkaline  
hydrolysis of IIIa-c and IVa-c converts these  
compounds to the corresponding N-substituted cis-

Card: 1/2

Country : Bulgaria  
 Category= : Organic Chemistry. Synthetic Organic Chemistry G  
 Abs. Jour. : Ref Zhur-Khimiya, No.12, 1959, No.42384  
 Author : Zhelyazkov, L., Petkova, E.  
 Institut. : Scientific Research Institute of Pharmacy  
 Title : Synthesis of Substances with Presumed Analgesic Action.  
 Orig. Pub. : Tr. N.-I. in-t farmatsiya, 1957, 1, 28-31

Abstract : Certain derivatives of n-phenetidine (I) were synthesized for the purpose of obtaining analgesics. The mixture of I,  $\text{CH}_2=\text{CHCN}$  and glacial  $\text{CH}_3\text{COOH}$  is boiled 8-9 hours;  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{NHCH}_2\text{-CH}_2\text{CN}$  (II) is extracted with ether; the yield is 45-55%; the melting point is  $74\text{-}76^\circ$  (from alcohol). Apparently it is  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{N}(\text{CH}_2\text{CH}_2\text{CN})_2$  which is separated from the mother liquors; the melting point is  $120\text{-}128^\circ$ . The saponification of II produces  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{NHCH}_2\text{CH}_2\text{COOH}$ ; yield 74%.

Card: 1/2

Category : Organic Chemistry. Synthetic Organic Chemistry G  
 Abs. Jour. : Ref Zhur-Khimiya, No.12, 1959, No.42384

Author :  
 In Title :  
 Title :

Orig Pub. :

Abstract : melting point  $103\text{-}105^\circ$ ; ethyl ether, melting point  $38^\circ$ ; hydrazide, melting point  $113\text{-}115^\circ$ .  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{N}(\text{CH}_3)\text{COCH}_3$  (III) is obtained from the following arrangement:  $\text{I} \rightarrow 4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{N}(\text{Na})\text{-COCH}_3 \rightarrow \text{III}$ . The obtained III is hydrolyzed with HCl to  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{NHCH}_3$  (IV). The action of  $\text{CH}_2\text{O}$  and  $\text{NaHSO}_3$  on IV produces  $4\text{-C}_2\text{H}_5\text{OC}_6\text{H}_4\text{N}(\text{CH}_3)\text{CH}_2\text{SO}_3\text{Na}$ ; yield 75%; melting point  $265^\circ$ . -- V. Skorodumov.

Card: 2/2

Country : Bulgaria  
 Category :

G-2

Abs. Jour :

45864

BULGARIA/Organic Chemistry - Synthetic Organic Chemistry.

G-2

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14532

Author : Zhelyazov L., Zikolova Sv., Bikova N.

Inst :

Title : Behavior of Cis- and Trans-Isomers of 4-Methyl-5-Phenyl-Oxazolindone-2 Toward Lithium Aluminum Hydride.

Orig Pub: Farmatsiya (B"lg.), 1957, 7, No 3, 19-23.

Abstract: It is shown that cis- (I) and trans- (II) 4-methyl-5-phenyl-oxazolindone-2 are not reduced over skeleton Ni or Pd/C under normal conditions; on an attempt to effect the reduction with Na and alcohol, or Na and amyl alcohol, II is converted to norephedrine. On boiling for 7 hours with an ether solution of 2 mole  $LiAlH_4$ , I and II are reduced, with almost quantitative yields, to pseudo-ephedrine and ephedrine.

Card : 1/1

BULGARIA/Chemical Technology. Chemical Products and Their Application. Pharmaceuticals. Vitamins. Antibiotics.

H-17

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5700.

Author : Zhelyazkov, L.

Inst :

Title : Progress in Chemistry of Pharmaceuticals in USSR.

Orig Pub: Farmatsiya (B"lg.), 1957, 7, No 5, 15-23.

Abstract: No abstract.

Card : 1/1

ZHELYAZKOV, L.

BULGARIA/Organic Chemistry Synthetic Organic Chemistry

Q-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81637.

Author : Ivanov Ch , Jelyaskov L , Dodova M , Agova M.

Inst : AN Bulgaria

Title : The Preparation of Nitrofuran Substitutes Having Possible Antitubercular Activity.

Orig Pub: Dokl. Bolg. AN, 1957, 10, No 4, 313-316

Abstract: In search of new preparations which possess anti-tubercular activity, there were obtained: 5-nitrofurfurylidene salicylhydrazine, yield 80.3%, m.p. 246-250°C. (with decomposition; from alcohol); 5-nitrofurfurylidene benzylcyanoacetyl hydrazine, yield 64%, m.p. 181-185°C. (with decomposition; from alcohol), and 5-nitrofurfurylidene isonicotynoyl hydrazine (I). It was demonstrated that cyanoacetyl

Card : 1/2

BULGARIA / Organic Chemistry. Natural Substances  
and Their Synthetic Analogues.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50504  
Author : Zhelyaskov, L.; Petkova, E.  
Inst : -  
Title : Isomerization of Codeine into Dihydrocodeinone.  
Orig Pub : Pharmazia (Bulg), 1957, 17, #4, 11-13.  
Abstract : Upon 24 hours of boiling in toluene, in presence  
of Ni-Sponge, Catalyst codeine was isomerized  
into dihydrocodeinone with 30% yield, m.p. 193-  
195° (fr. alcohol). Use of cyclohexanone as a  
hydrogen acceptor in the above reaction (Findlay  
St.P., Small L.F.; J. Amer. Chem. Soc., 1950,  
72, 3247-3249) was found to be not mandatory.  
-- D. Vitkovskiy

Card 1/1

BULGARIA / Organic Chemistry. Organic Synthesis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1292.

Author : Zhelyazkov, L., Bikova, N., Petkova, Ye.

Inst : Not given.

Title : The Synthesis of Harmine Bases.

Orig Pub: Formatsiya (Bulg.), 1958, 8, No 2, 13-17.

Abstract: 9-R-harmine were synthesized (Ia-d), where R is  $\text{CH}_3$ ,  $\text{bR} = \text{n-C}_4\text{H}_9$ ,  $\text{oR} = \text{n-CH}_3\text{OC}_6\text{H}_4\text{CH}_2$ ,  $\text{dR} = \text{CH}_2\text{CH}_2\text{OH}$ . Upon heating n-xylene dichloride for 5 hours with harmine in  $\text{C}_4\text{H}_9\text{OH}$ , the dichloride 2-(n-xylene)-bis-harmine was apparently obtained. Also obtained were the iodine methylates (IM), 9-benzyl- (m. p.  $283-284^\circ\text{C}$ .), 9- $\beta$ -dimethyl aminoethyl- (m. p.  $288-290^\circ\text{C}$ .) and 9- $\beta$ -diethylaminoethyl- (m. p.  $298-299^\circ\text{C}$ .) - harmine. Two grams of dimethyl

Card 1/3

BULGARIA / Organic Chemistry. Organic Synthesis. G-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1292.

Abstract: cohol); sulfate, m. p. 263-264°C.; picrate, m. p. 260-263°C.; tartrate, m. p. 253-254°C.; salicylate, m. p. 242-244°C.; IM, m. p. 298-301°C.; o-benzoyl derivative, m. p. 285-288°C. -- D. Vitkovskiy.

Card 3/3



BULGARIA/Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81668

Author : Zhelyazkov L., Zikolova Sv., Agova M.

Inst :

Title : The Synthesis of Compounds With Prospective Anti-tubercular Activity. III. Hydrazides and Hydrazones

Orig Pub: Khimiya i industriya (Belg.), 1958, 30, No 1, 14-17

Abstract: In the search of new antitubercular compounds, the hydrazide of 2,6-dioxyisonicotinic acid was obtained, m.p. 215-216°C, which was converted into isonicotinoyl hydrazones (INH) by the condensation with carbonyl compounds (CC); Given are CC and m.p. in °C. of the corresponding INH:  $\alpha$ -galactose, 170-173°C., diacetone alcohol, 140-142°C; 5-nitrofurfural, 250 (decomposition); Karvon, 142-143; perillaldehyde, 126-130;

Card : 1/2

COUNTRY : BULGARIA  
 C/TORY : Organic Chemistry. Synthetic Organic Chemistry  
 AEC. JOUR. : RZhkhim., No. 1 1960, No. 1267  
 AUTHOR : Znelyazkov, L.; Zikolova, S.; Bikova, H.  
 INST. :  
 TITLE : Synthesis of 3-Substituted Oxazolidones-2 and Their Derivatives  
 ORIG. PUB. : Farmatsiya, 1959, 9, No 2, 33-35  
 ABSTRACT : By the alkylation of cis- and trans-4-methyl-5-phenyloxazolidones-2 (I, II), N-alkylsubstituted I and II were synthesized [Ia-f and IIa-f; everywhere a alkyl = n-C<sub>3</sub>H<sub>7</sub>; b n-C<sub>4</sub>H<sub>9</sub>, c CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub>, d n-C<sub>6</sub>H<sub>13</sub>, e CH<sub>2</sub>CH=CH<sub>2</sub>, f CH<sub>2</sub>CH<sub>2</sub>N-(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>], through the alkaline hydrolysis of which cis- and trans-2-alkylamino-1-phenylpropanols (IIIa-f and IVa-f), interesting

CARD: 1/3

G-35

COUNTRY	:	G
CATEGORY	:	
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 1267
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT cont'd	:	from the pharmacological viewpoint, were obtained. M.p. in °C of synthesized bases and their hydrochlorides are given: Ic, 28-34, --; IIc, 83-84, --; IIIa, 89-90, 145-148; b, 68-69.5, 153-155; c, 76-78, 155-157.5; d, 55-57, 165-168; e, 80-82, -- [oxalate (OX), m.p. 140-142°]; f, --, --, (OX, m.p. 165-170°; diiodohydrate, m.p. 195-197°); IVa, 65-66, 215-217; b, 68.5-69, 220-221; c, 69-71, 202-
CARD:		2/3

COUNTRY : G  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1 1960, No. 1267  
 AUTHOR :  
 INST. :  
 TITLE :  
 ORIG. PUB. :  
 ABSTRACT : 205. [OX, m.p. 213° (decomp.)]; d, 57-59, 227-  
 cont'd 228; e, --, --, [OX, m.p. 199-201° (decomp.)];  
 f, --, -- (OX, m.p. 182-183°, diiodohydrate,  
 m.p. 185-186°). All of the substituted I and  
 II (except Ic, IIc) do not crystallize. See  
 also RZKhim., No 13, 1959, No 45884.-- D.  
 Vitkovskiy

CARD: 3/3

G-36

COUNTRY : Bulgaria H-17  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1959, No. 87566  
 AUTHOR : Zhelyazkov, L.; Agova, M.; Petkova, Ye.; \*  
 INST. : Scientific Research Institute of Pharmacy  
 TITLE : Synthesis of 5,6-Dimethyl-Benzimidazole  
 ORIG. PUB. : Tr. N.-1. in-t farmatsiya, 1957, 1, 50-51  
 ABSTRACT : A synthesis has been effected for 5,6-dimethylbenzimidazole (MP 202-203°, yield 80%), used as predecessor in the biosynthesis of vitamin B<sub>12</sub>. A method has been developed for the chloromethylation of p-nitrotoluene with symmetrical dichlorodimethyl ether, which has strongly toxic properties, without isolation of the latter from the sulfuric acid reaction mixture. -- From authors' summary.  
 CARD:  
 \* Bikova, N.; Levi, Sh.  
 209

COUNTRY : Bulgaria H-17  
 CATEGORY :  
 APPROVED FOR RELEASE: 03/15/2001, CIA-RDP86-00513R002064710014  
 ABS. JOUR. : RZKhim., No. 1959, No. 87566  
 AUTHOR : Zhelyazkov, L.; Agova, M.; Petkova, Ye.; \*  
 INST. : Scientific Research Institute of Pharmacy  
 TITLE : Synthesis of 5,6-Dimethyl-Benzimidazole  
 ORIG. PUB. : Tr. N.-1. in-t farmatsiya, 1957, 1, 50-51  
 ABSTRACT : A synthesis has been effected for 5,6-dimethylbenzimidazole (MP 202-203°, yield 80%), used as predecessor in the biosynthesis of vitamin B<sub>12</sub>. A method has been developed for the chloromethylation of p-nitrotoluene with symmetrical dichlorodimethyl ether, which has strongly toxic properties, without isolation of the latter from the sulfuric acid reaction mixture. -- From authors' summary.  
 CARD:  
 \* Bikova, N.; Levi, Sh.  
 209



ZHELYAZKOV, L.

17

12. The Synthesis of Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
13. On the Preparation of Polycondensates by the Alkyls of Nitrogen. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
14. The Influence of the Enriched Cation of Polymers in Their Solubility in Benzene and in Chloroform. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
15. New Data on Arsenic Compounds. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
16. Constitutional Isomers of Simple and Complex Salts in Organic Compounds. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
17. Synthesis of Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
18. Synthesis of Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
19. The Synthesis of Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
20. The Role of the Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
21. The Effect of the Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.
22. The Investigation of the Simplest Chemical Compounds of Germanium. English Summary. In: Chemical Abstracts, Vol. 6, No. 6, 1961 (1961-1962). English with Russian summary: pp 1-10.

ZHELYAZKOV, L. [Zheliazkov, L.]; BIKOVA, N.

3, 4, 5-trimethoxybenzoic esters of some substituted 4-piperidols.  
Doklady BAN 16 no.5:521-524 '63.

1. Submitted by Academician D. Ivanoff [Ivanov, D.].



GEORGIYEV, A.G.; ZHELYAZKOV, L.D.

Synthesis of  $\beta$ -hydroxy- $\beta$ -naphthylpropionic esters by means of Reformatskii reaction. Dokl. AN SSSR 154 no.1:132-135 Ja'64.

(MIRA 17:2)

1. Nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut, Sofiya, Bolgariya. Predstavleno akademikom B.A. Kazanskim.

ZHET.YAZKOV, S.; MONEV, V.

Starhylococci as a cause of hospital infections. Suvr. med.  
(Sofila) 15 no.8:36-40 '64

TANEV, Iv., prof.; ZHILYAZKOV, S.; SHCHEREV, P.; TODOROV, H.;  
BOYADZHIYEVA, M.; AVRAMOV, S.

Early diagnosis and treatment of whooping cough. *Pediatrica* 36  
no.2:33-38 F '59. (MIRA 12:4)

1. Iz kafedry infeksionnykh bolezney i epidemiologii (sav. - prof.  
P. Verbev, sav. klinikoy - prof. Iv. Tanev) pri Vysshem meditsin-  
skom institute (Sofiya).

(WHOOPING COUGH

early diag. & ther. (Rus))

ZHELYAZOV, Z.

Controlling the Thermal Treatment Quality of Automobile and Tractor Parts.  
In the Bulgarian Heavy Industry, 5:40:May 55

~~ZHEL'YAZKOVA-PANAYOTOVA, M.~~ [Zheliaskova-Panaiotova, M.]

Relationship between the specific gravity and size of the  
unit cell in chromospinelids. Doklady BAN 15 no.2:179-182  
'62.

1. Predstavleno chl.-korr. I. Kostovym (Kostov, I.).

ZHELYAZKOVA-PANAYOTOVA, M. [Zhelezskova-Panayotova, M.]

Some considerations on the metamorphism of chromopirrellids. Godishnik  
biol. 57 no.1:43-74 '62-'63 [publ. '64]

Alpha cerolite and beta cerolite of the Rhodope Mountains. Ibid.:  
167-183

[illegible]

ZHELYAZOVSKIY, V.N., kand. tekhn. nauk, dots.

[New building materials; lectures read in courses for raising the qualifications of engineering and technical workers] Novye stroitel'nye materialy; lektsii prochitanye na kursakh povysheniia kvalifikatsii ITR. Novosibirsk, In-t inzhenerov zheldor. transporta, 1964. 70 p.  
(MIRA 18:3)



ZHELYAZKOVA-PANAYOTOVA, M.

Reviews. Geokhimiia no.7:887-888 J1 '65.

(MIRA 18:11)

1. Kafedra poleznykh iskopayemykh Sofiyskogo Universiteta  
"Kliment Okhridski".

ZHELVIS, A.I.

Characteristics of limestone for sulfuric acid towers in sulfite-cellulose production. Trudy LTA no.87:103-109 '59. (MIRA 13:4)  
(Sulfuric acid)

KALININ, F.L.; ZHELYUK, V.M.

Physiological and biochemical changes in winter rape during the transition to the reproductive development under the influence of gibberellic acid. Ukr. bot. zhur. 20 no.2:14-20 '63. (MIRA 16:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy:

(Gibberellic acid) (Rape(Plant))  
(Plant physiology)

ZHELZNYAKOV, V.V.

6. Radioastronomical Studies of the Sun

"Frequency Spectrum and Reabsorption of Radioradiation Related to Solar Spots," by V.V. Zhelznyakov. Uch. zap. Gorkovsk. un-ta. 1956, 30, pp 41-60. (From Referativnyy Zhurnal -- Astronomiya i Geodeziya, No. 4, Apr 57, Abstract No 2796.)

The relation of the mechanism of solar spots to relativistic electrons moving in the magnetic field of the spots is analyzed. On the basis of the determined energy spectrum of electrons, the frequency spectrum of radio emission is obtained in agreement with observational data. From the analysis of various factors affecting the absorption of radio waves over the spot, it is concluded that the basic absorption of electron-generated waves is conditioned by the conversion of electromagnetic radiation energy into kinetic energy during the establishment of forced oscillations of relativistic electrons in the wave field. (U)

Sum 1429

Kh., insh.; ZHMALETDINOV, Kh., insh.

New machinery for rural construction.  
no.7:21-23 J1 '60.  
(Building machinery)

Bel'stroi. 15  
(MIRA 13:8)

ZHEMALETDINOV, Kh., inzh.

Hoisting cranes on reusable runways. Stroitel' no.12;21  
D '59.

(Cranes, derricks, etc.)

(MIRA 13;3)

Beech

Oil containers made of beech. Les. prom., 12, No. 8, 1952.

Monthly List of Russian Acquisitions, Library of Congress, October 1952. UNCLASSIFIED.

KAZAKEVICH, N. L.; SIMONENKO, A. T.;  
KAZAK, V. K.; ZHEZANOV, I. N. ENCS.

Machine Tools

Making cutters and stencils with straight tooth design on a cutting and grinding machine.  
Vest. mash., 32, no. 2, 1952.

Monthly List of Russian Accessions. Library of Congress. October 1952. UNCLASSIFIED.



CHENKO, A.I.; KADAK, V.K.; ZHEMANOV, I.N. Russ.

Machine Tools

Making cutters and stencils with straight tooth design on a cutting and grinding machine,  
Vest. mash., 32, no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October, 1952, Unclassified.



L 38820-66 EWT(1) IJP(c)

ACC NR: AR6021041

SOURCE CODE: UR/0058/66/000/002/HD57/HD57

AUTHOR: Gershteyn, G. M.; Zhemarin, G. V. n<sup>4</sup>3

TITLE: Concerning the use of the method of induced current to simulate fields in inhomogeneous media

SOURCE: Ref zh.Fiz, Abs. 2H380

REF SOURCE: Sb. Vopr. elektrich. modelirovaniya poloy. Saratov, Saratovsk. un-t, 1964, 182-193

TOPIC TAGS: simulation, induced current, model scaling, electrostatic field, dielectric constant, *ANISOTROPIC MEDIUM*

ABSTRACT: It is shown theoretically and experimentally that the fictitious field of the Shockley-Ramo theorem has the same properties with respect to material piecewise inhomogeneous dielectric media (DM) as a real electrostatic field. It is also possible to apply this theorem to an anisotropic DM whose dielectric constant ( $\epsilon$ ) is described by a symmetrical second-rank tensor, if one uses an isotropy-producing deformation of space. The possibility of simulating fields in inhomogeneous media using induced-current models into which dielectrics with different  $\epsilon$  are introduced, is demonstrated. A preliminary experimental confirmation of this possibility is obtained. [Translation of abstract]

SUB CODE: 20

Card 1/1 *HP*

ZHEMARIN, V.A.; KOZLOV, S.S.

Present and future developments in the oil container industry.  
Transp. i khran. nefi no.8:24-27 '63. (MIRA 17:3)

1. Gosudarstvennyy komitet khimicheskoy i nefyanoy promyshlennosti  
pri Gosplane SSSR i Glavnoye upravleniye po transportu i snabzheniyu  
neft'yu i nefteproduktami RSFSR.

VISHNEVSKIY, A.S., prof.; NANAZIASHVILI, I.S., nauchnyy sotrudnik; prinimali uchastkiye: KOVALENKO, M.D.; ZHEMARTSEVA, T.I.; LENSKIY, B.S.

Health resort treatment of severe forms of hepatitis and cirrhosis of the liver. Uch.zap.Pyat.gos.rauch.-issl.bel'n.inst. 3:117-131 '60. (MIRA 15:10)

1. Sanatoriy No.7, Yessentuki (for Kovalenko). 2. Sanatoriy No.11 Yessentuki (for Zhemartseva). 3. Sanatoriy imeni I.M.Sechenova Yessentuji (for Lenskiy).

(LIVER--CIRRHOSIS) (LIVER--DISEASES)  
(YESSENTUKI--HEALTH RESORTS, WATERING-PLACES, ETC.)

ZHEMAYTIS, F.R., kandidat voyennykh nauk, general-mayor.

[The battle of Stalingrad] Stalingradskaia bitva. Moskva, Znaniye, 1953.  
39 p. (MIRA 6:10)

(Stalingrad, Battle of, 1942-1943)

MIKHAYLOVA, K.K. (Krasnoyarsk); SHKREBKO, P.I. (Kiyev); AFANAS'YEV, I.A.  
(Pskovskaya oblast'); YUN SU-GON (Shaktersk, Sakhalin); ZHEMAYTIS, I.  
[Zemaitis, J.] (Kaunas)

Editor's mail. Mat. v shkole no.2:46-51 Mr-Apr '63. (MIRA 16:4)  
(Mathematics—Study and teaching)

ZHEMAYTIS, K.

AUTHOR: Zhemaytis, K.

133-11-17/19

TITLE: The Iron and Steel Industry in Poland (Chernaya metallurgiya Pol'shi)

PERIODICAL: Stal', 1957, No.11, pp. 1038 - 1041 (USSR).

ABSTRACT: A brief review of the development of the iron and steel industry in Poland during 1948 - 1957 is given. For comparison, the output data for 1938 are taken. There are 3 tables.

ASSOCIATION: The author is the Minister of Heavy Industry of the Polish People's Republic.

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BUNIMOVICH, David Zakharovich; ZHEMATIS, S., redaktor; MOROZOVA, G.,  
tekhnicheskiy redaktor

[Photographic laboratories of Pioneers] Pionerskaia fotolaboratoriia.  
[Moskva] Izd-vo TsK VLESM "Molodaia gvardiia," 1956. 85 p. (MLRA 9:10)  
(Photography--Apparatus and supplies)

SMETANIN, Boris Mikhaylovich; ZHEMAYTIS, S., redaktor; KIRILLINA, L.,  
tekhnicheskii redaktor

[The young radio builder] Iunyi radiokonstruktor. [Moskva] Izd-vo  
TsK VLESB "Molodaya gvardiya," 1956. 286 p. (MLBA 9:10)  
(Radio--Amateurs' manuals)

TARKHOVA, Tamara Nikolayevna; BYSTROZOROV, Igor' Semenovich; ZHEMAYTIS, S.,  
red.; KOVALEV, A., tekhn.red.

[Machine-tractor station schools] Shkol'nye MTS. [Moskva] Izd-vo  
TsK VLKSM "Molodaia gardiia," 1957. 20 p. (MIRA 10:12)

1. Direktor Yelizavetinskoy sredney shkoly Gatchinskogo rayona  
Leningradskoy oblasti (for Tarkhova).  
(Machine-tractor stations)

ZHEMBROVSKAYA, L.

USSR/Medicine - Antibiotics

Feb 50

"Determination of the Concentration of Penicillin in Human Blood," P. Ye. Vleis', L. I. Zhebrovskaya, Inst Mikrobiol Imeni Acad D. K. Zabolotnyy, Acad Sci Ukrainian SSR

"Mikrobiologichnyi Zhur" Vol XI, No 4, pp 81-86

Proposes method for detg penicillin concn in a glucose (1%) - citrate (0.5%) bouillon to which 10% of serum has been added. Method is simple and reliable. It can be used for detg concn of penicillin not only in blood serum, but also in urine, exudates, etc. With a sp strain of streptococci

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(Contd)

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(Strain 2/4), this method permits one to detg penicillin in blood in the range of 0.03-4 units per 1 ml, which is sufficient for clinical purposes.

203785

SEMENENKO, N.P. (Kiyev); RODIONOV, S.P., redaktor; ZHEMEROVSKIY, M.A.,  
redaktor; SIVACHENKO, Ye.K., tekhnicheskii redaktor

[Paragenetic analysis and classification of metamorphic rocks]  
Parageneticheskii analiz i sistematika metamorficheskikh porod.  
Kiev, Izd-vo Akademii nauk Ukrainsoi SSR, 1954. 58 p. (Akade-  
mia nauk URSR, Kiev. Instytut geologichnykh nauk, Trudy, no.2.  
Seria petrografii, mineralogii i geokhimi) (MLRA 8:10)

1. Institut geologii Akademii nauk USSR (for Semenenko) 2. Chlen-  
korrespondent Akademii nauk USSR (for Rodionov)  
(Rocks, Crystalline and metamorphic)

SEMENENKO, N.P.; SIROSETAN, R.I.; STEPANETS, V.D.; RODIONOV, S.P., ot-  
vetstvennyy redaktor; ZHEMEROVSKIY, M.A., redaktor; SIVACHENKO,  
Ye. K., tekhredaktor.

Field of migmatites and granites in the Ingulets Valley. Trudy Inst.  
geol. nauk AN URSR no.3:5-162 '54. (MIRA 8:3)

1. Chlen-korrespondent Akademii nauk USSR (for Rodionov)-  
(Ingulets Valley--Gneiss) (Ingulets Valley--Granite)

GINZBURG, B.I.; TSIMBALYUK, V.Yu.; ZHEMBUS, M.D.

Performance of tuyeres with fast water circulation. Metallurg  
10 no.7:20-21 J1 '65.  
(MIRA 18:7)

RYABTSEV, L.N.; KARPETA, D.I.; MOREV, I.I.; RAYEV, Yu.O.; KLOKOV, P.V.;  
ZHEMBUS, M.D.; YEVSEYEV, A.M.; TKACHENKO, V.K.

Young blast furnace operators are exchanging work practices. Metallurg no.12:7-10 D '56.  
(MIRA 10:1)

1..Master domennoy pechi no.7 Magnitogorskogo metallurgicheskogo kombinata (for Ryabtsev). 2.Master domennoy pechi no.7 Magnitogorskogo metallurgicheskogo kombinata (for Karpeta). 3.Master Magnitogorskogo metallurgicheskogo kombinata (for Morev). 4.Pomoshchnik мастера Kuznetskogo metallurgicheskogo kombinata (for Rayev). 5.Master metallurgicheskogo zavoda imeni Serova (for Klovov). 6.Master metallurgicheskogo zavoda imeni Petrovskogo (for Zhembus). 7. Master Chusovskogo metallurgicheskogo zavoda (for Yevseyev). 8. Master Makeyevskogo metallurgicheskogo zavoda (for Tkachenko).  
(Magnitogorsk--Blast furnaces)



ZHEMBUS, M.D.; KOTOV, K.I.

Intensifying the blast furnace smelting process with the  
use of combined blowing. Mat. 1 gornorud. prom. no.1;  
13-15 Ja-F '64.

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KOTOV, K.I., inzh.; ZHEMBUS, M.D., inzh.; TSYMBALYUK, V.Yu., inzh.

Investigating the composition of gas in the hearth of a blast  
furnace operating on combined blowing. Stal' 25 no.2;97-102  
F '65. (MIRA 18;3)

1. Dnepropetrovskiy metallurgicheskiy institut i metallurgicheskiy  
zavod im. Petrovskogo.

LIKHORADOV, A.P.; ZHIGULIN, V.I.; ZHEMBUS, M.D.; RUDAKOV, V.P.; KOTOV, K.I.;  
ZHAK, A.M.; TSYMBALYUK, V.Yu.; FILIMONOV, V.V.

Service of the lining and cooling equipment of a blast furnace  
in the smelting of ferromanganese. Metallurg 10 no.10:12-14  
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Met. i gornorud. prom. no.1:7-10 Ja-F '65. (MIRA 18:3)

ZHEMBUS, M.D.; FOLTAVETS, V.V.; KOTOV, K.I.

Forcing blast furnace smelting during operations with a combined  
blow. Metallurg 9 no.6:9-11 Je '64. (MIRA 17:9)

1. Nachal'nik domannogo tockha metallurgicheskogo zavoda im. Petrov-  
skogo (for Zhembus). 2. Dnepropetrovskiy metallurgicheskii institut  
(for Foltavets, Kotov).

GIMMEL'FARB, A.A., kand. tekhn. nauk; LIKHORADOV, A.P.; ZHEMBUS, M.D.;  
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Increasing the strength of fluxed sinter. Met. i gornorud.  
prom. no.6:7-11 N-D '65.  
(MIRA 18:12)

GE CHZHI-DA [Ke Chih-ta]; ZHEMOHUGOV, A. [translator]; LAVROV, V.V.; kand.  
ekon.nauk, red.; LOGOVINSKAYA, R., red.; LEBEDEV, A., tekhn.red.

[Budget of China in the transition period] Budzhet Kitaa v  
perekhodnyi period. Predisl. i red. V.V.Lavrova. [Translated  
from the Chinese] Moskva, Gosfinizdat, 1958. 250 p. (MIRA 12:3)  
(China--Budget)

DASHKEVICH, Z.V. [translator]; ZHEMCHUGOV, A.A. [translator]; PEKSHEV, Yu.A., red.; FILATOVA, V.A., red. izd-va; LAGUTINA, I.A., tekhn. red.

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N.A., tekhnicheskii redaktor

[At the Gorkiy Automobile Plant] Na Gor'kovskom avtomobile. [Moskva]  
Izd-vo VTsSPS Profizdat, 1956. 35 p. (MLRA 10:4)

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ZHEMCHUGOV, V.N., inzh.; GUDNIN, N.N., inzh.

Improving the characteristics of a centrifugal pump in  
polishing rotor wheel channels by means of the abrasive-  
jet method. Vest.mashinostr. 45 no.10:28-29 0 '65.

(MIRA 18:11)

ACC NR: AF6028094

SOURCE CODE: UR/0314/66/000/006/0010/0011

AUTHOR: Abdurashitov, S. A. (Doctor of technical sciences); Belotskiy, D. G. (Candidate of technical sciences); Gudnin, N. N. (Engineer); Zhemchugov, V. N. (Engineer) 28 B

ORG: none

TITLE: Effect of the roughness of working rotor channels on the characteristics of a centrifugal pump 14

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 6, 1966, 10-11

TOPIC TAGS: centrifugal pump, surface roughness

ABSTRACT: The aim of the work was a quantitative determination of the magnitude of the loss in head, H, and the power required, N, as functions of the roughness of the individual surfaces of the channel of the working rotor. At the start, experiments were carried out on a Type 3K-6 pump. The working rotor was carefully cleaned of paint, after which the roughness of the channels was determined by the impression method. The characteristics of the pump were then determined on a plant testing unit. To decrease the roughness of the surfaces, use was made of a specially designed and constructed unit (See Fig. 1)

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UDC: 621.671.001.5

ACC NR: AF6028094

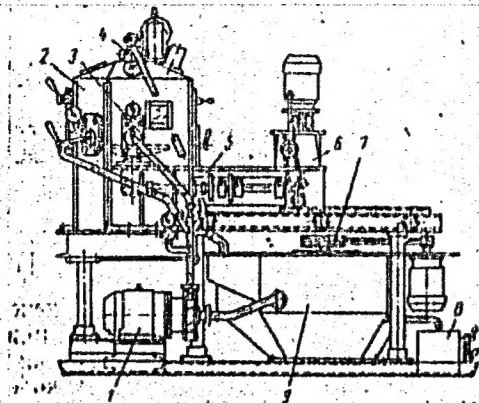


Fig. 1. Hydrojet abrasion unit

With reference to the figure, the abrasive slurry, consisting of an abrasive in water at a volume ratio of 1:7(1:10) is fed onto the piece being treated by rubber lined electric pumps 1, Type TsNPU-12/65-Gum, through lateral 3, and upper 4 jets. The piece being treated is placed in chamber 2, and rotated at a speed of 4 rev/min. After polishing of the rotor on the unit described, the characteristics of the pump were again determined. The article gives curves showing the change in the characteristics of the pumps as a function of the degree of treatment of the working rotor. It is

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